

2nd Webinar on

CATALYSIS & CHEMICAL ENGINEERING

MARCH 11-12, 2021 | 11 : 00 GMT

Coalesce Research Group

33 Market Point Dr,
Greenville, SC 29607, USA

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Scientific Program

2nd Webinar on

Catalysis & Chemical Engineering

Thursday
March 11, 2021

Day 1 - March 11, 2021

11:00 - 11:10 Introduction

Oral Presentations

11:10 - 11:40 CalAISil™ advancements in reticular chemistry for next generation ceramics
Leon Burgess-Dean, CalAISil™, Australia

11:40 - 12:10 Ultrasmall synergistic nanocluster catalyst for CO₂ Conversion
Jiasheng Wang, Dalian University of Technology, China

12:10 - 12:40 Study of nanoparticle size effect in nitrate reduction in aqueous phase by using Pt nanoparticles supported on silica
Riitta L. Keiski, University of Oulu, Finland

12:40 - 13:10 Role of catalyst in performance of combustion-Type MEMS gas sensor
Sara Stolyarova, Technion-Israel Institute of Technology, Israel

Lunch (13:10 - 13:40)

13:40 - 14:10 Ge As - A new dopant to moderate CO poisoning in small-sized Pt nanoclusters
Andoni Ugartemendia, University of the Basque Country, Spain

14:10 - 14:40 Photocatalysis based on porous carbons and carbon/semiconductors: Challenges on evaluating the optical band gap and catalytic performance
Conchi O. Ania, CEMHTI, CNRS, France

14:40 - 15:10 A photocatalytic route to click reaction: Synthesis of 1,2,3-triazoles of biological importance
Subhendu Sekhar Bag, Indian Institute of Technology Guwahati, India

15:10 - 15:40 Laser interaction with molecular contaminants in water
J. R. Leis, INMA, Spain

End of Day 1 Sessions

Scientific Program

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Friday
March 12, 2021

Day 2 - March 12, 2021

Oral Presentations

11:00 - 11:30	Stable physical castor oil-based gels obtained by microwave-assisted acetylation of lignin Antonio M. Borrero-Lopez , International University of Andalucía, Spain
11:30 - 12:00	Mixed metallic oxide of Fe, Co and Mn applied to thermochemical solar energy Yabibal Getahun , Harbin Institute of Technology, China
12:00 - 12:30	A CuO-based thermal catalyst for efficient CO ₂ -splitting Boshu Jiang , Harbin Institute of Technology, China
12:30 - 13:00	Accelerating development of promising nanocatalyzers assisted by statistical machine learning Giulia Lo Dico , IMDEA Materials Institute, Spain

Lunch (13:00 - 13:30)

13:30 - 14:00	Metallic/carbon dot nanocomposite as a photocatalyst for water purification: Short review Gangaraju Gedda , Vishnu Institute of Technology, India
14:00 - 14:30	Synthesis of ZnO nanorod on different substrate using hydrothermal method and its possible application for gas sensing Aniruddh Bahadur Yadav , VR Siddhartha Engineering College, India
14:30 - 15:00	Mercury adsorption and UV based detection Pragati Shukla , Bhabha Atomic Research Centre, India

Poster Presentation

PP1	Modification of the properties of a polyurethane by nanomodification with a layered silicate Marin Laurentiu , ICECHIM, Romania
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End of Day 2 Sessions

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